Overview of EPA's System of Registries





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Office of Environmental Information
12th International Emission Inventory Conference
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System of Registries

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Welcome to the System of Registries, the Foundation of EPA's Integration of Environmental Information



The System of Registries (SoR) provides a gateway and search capability to several registries and repositories residing in the Environmental Protection Agency's (EPA) Office of Environmental Information (OE). These registries comprise a critical link in EPA's information architecture and are a vital component to the National Environmental Information Exchange Network (Network). Specifically, the several residence of the Agency's data standards program and numerous Agency information technology initiatives, including the Agency architecture and data exchange with stakeholders through network nodes.

The registries provide identification information for objects of interest to EPA, Network trading partners, including states and tribal entities, and the public. These objects consist of data elements, XML tags, data standards, substances (chemicals, biological organisms, and physical properties), terms, facilities, regulations, and data sets that the Agency uses in its core business processes. You may scroll down to access any of these eight registries/hapositories directly.



Environmental Data Registry (EDR)

Data Standards, XML, and Application Metadata

EDR is a comprehensive, authoritative source of reference information (metadata) about environmental data. The EDR <u>Search</u> page includes queries for EPA data standard and application metadata such as data elements, XML tass, and value domains.



Facility Registry System (FRS)

Facility Identification Information

FRS is a centrally managed database that identifies facilities, sites, or places subject to emironmental regulations or of environmental interest. The <u>FRS Query Form</u> allows users to search for facilities that are in the <u>Envirolacts Warehouse</u> and through the FRS record to retrieve selected environmental data contained in the national program systems.



Information Resource Registry System (IRRS)

EPA's Application Inventory, Organization Hierarchy, and Other Information Resources

IRRS is an authoritative source of information about Environmental Protection Agency (EPA) application systems and other information resources. The IRRS Search page includes queries for Agency application system, organization, and other information resource metadata.



Substance Registry System (SRS)

Chemicals, Biological Organisms, and Miscellaneous Substances

SRS series as the nucleus for linking information about substances regulated by the EPA. The SRS <u>Search</u> page includes queries for substances (such as chemicals, organisms, and physical characteristics) in EPA regulations, data systems, and other information resources.



SoR: SoR Users Conference to be held March 20, 2003 in Arlington, Virginia.

EDR: Updated Contact Information and EXC Data Standards with new XML Tags. Enhanced Compare Tool Functionality.

FRS: Data refreshed for CERCUS, RCRAInfo, and GICS.

RRS: Fully functional EPA Organization hierarchy being developed and will be deployed soon.

SRS CRS and BioRS now fully integrated in SRS. New data load for STORET.

IRS Added new terms for chemical related regulations.



System of Registries www.epa.gov/sor/



Environmental Information Management System (EIMS)

Duta Sets, Models, and Spatial Duta

ElMS contains descriptive information (metadata) on scientific data sets, including remote sensing data, Geographical Information System (GIS) coverages, databases, documents, models, and multimedia. ElMS also provides a repository for scientific documentation that can be easily accessed with standard Web browsers to place a virtual library on the desktop of EPA staff and others with Internet access. The EIMS <u>Search</u> allows query by Information Type, Subject / Keyword, Cross Partner Collection, or ElMS Partner.



Terminology Reference System (TRS) Environmental Terms and Definitions

TRS provides a single resource of environmental terminology for the EPA by compiling collections of terms from the Agency and other sources. TRS contains collections of environmental terms and definitions from a variety of sources including Agency program offices, information systems, and state collections. The TRS <u>Search</u> page includes queries for terms and definitions by keyword, information resource, and organization.



EPA Registries

Business Object Registries

- Substance Registry System
- Facility Registry System

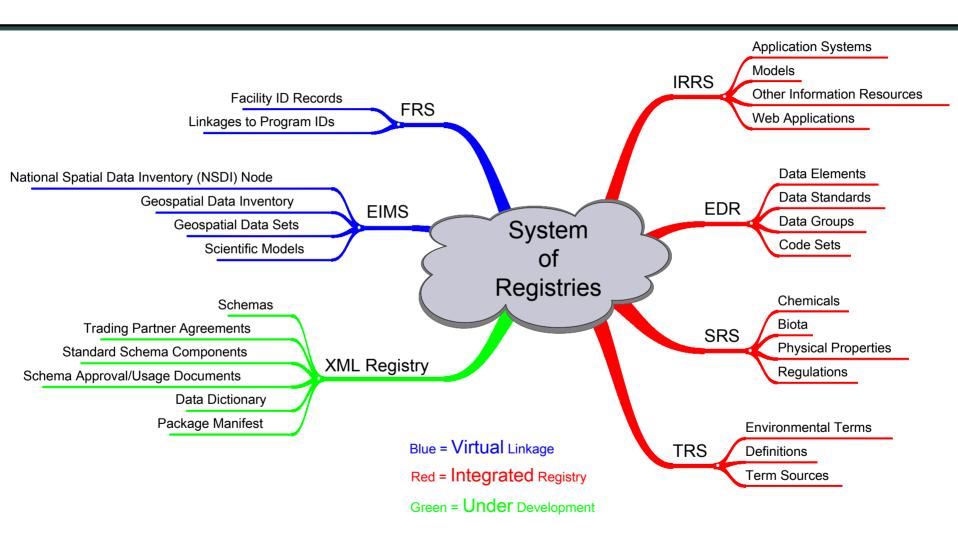
Metadata Registries

- Information Resources Registry System
- Environmental Data Registry
- Terminology Reference System
- Environmental Information Management System
- XML Registry for the Exchange Network



applications

System of Registries: Content





terms substances

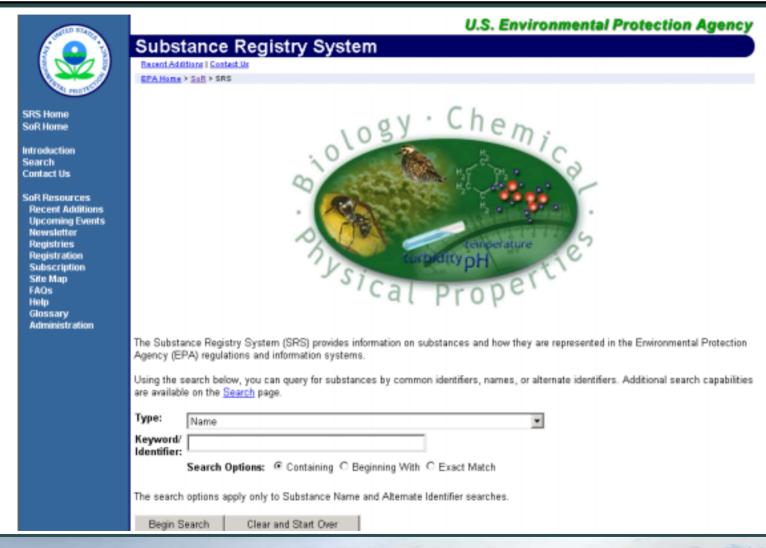
XML

value domains

applications

facilities

Substance Registry System (SRS) www.epa.gov/srs/





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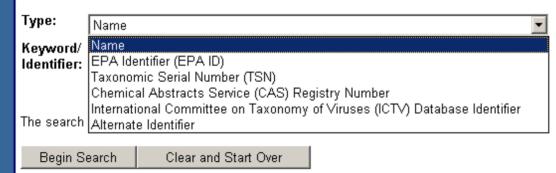
Introduction Search Contact Us

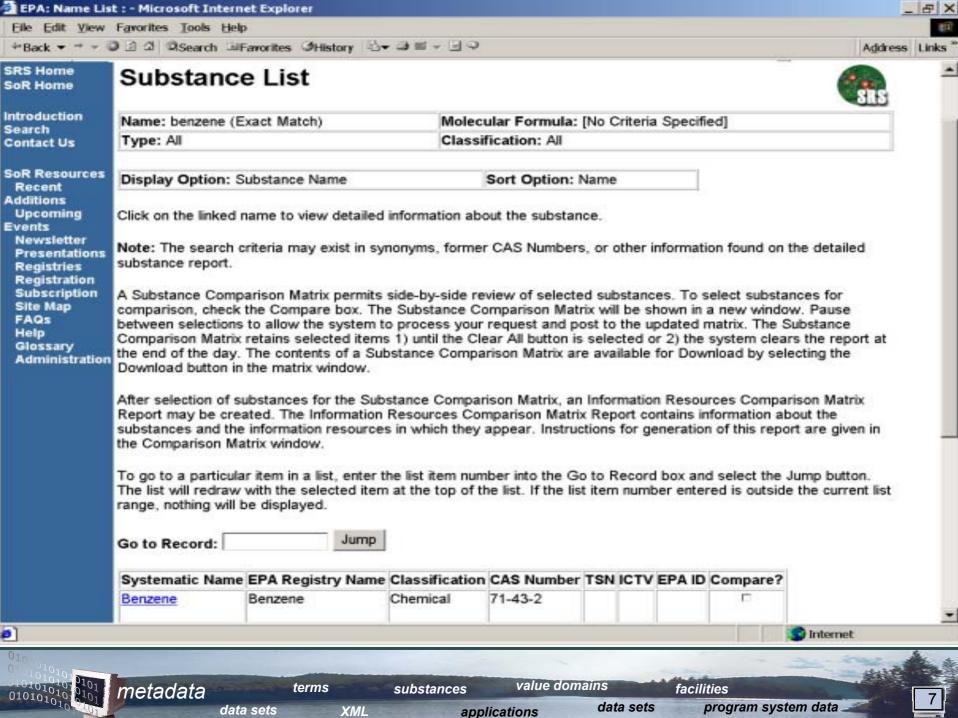
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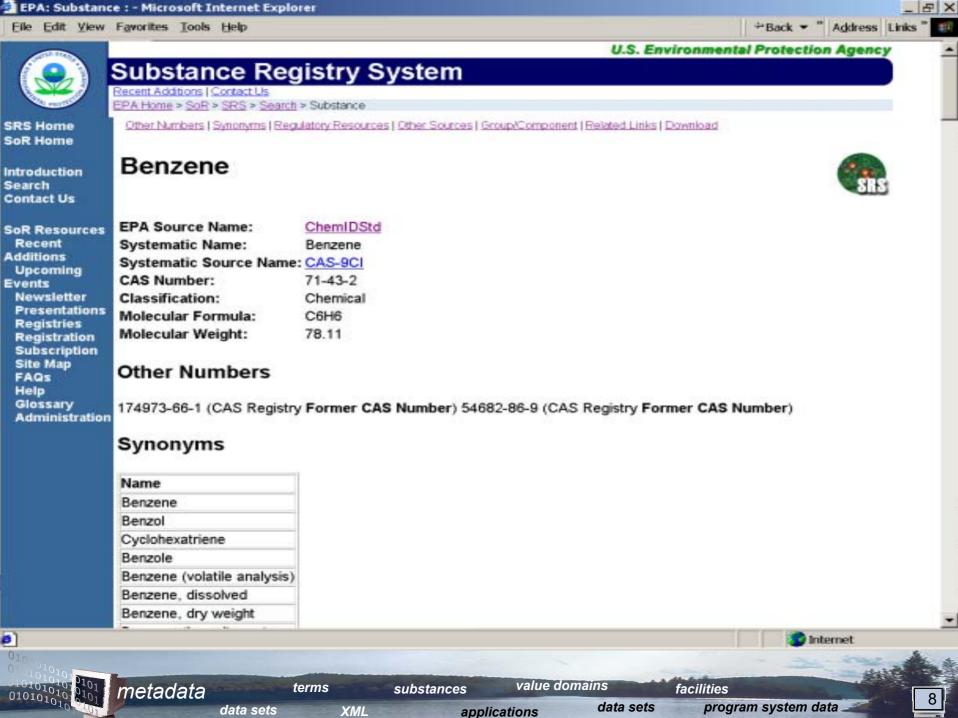


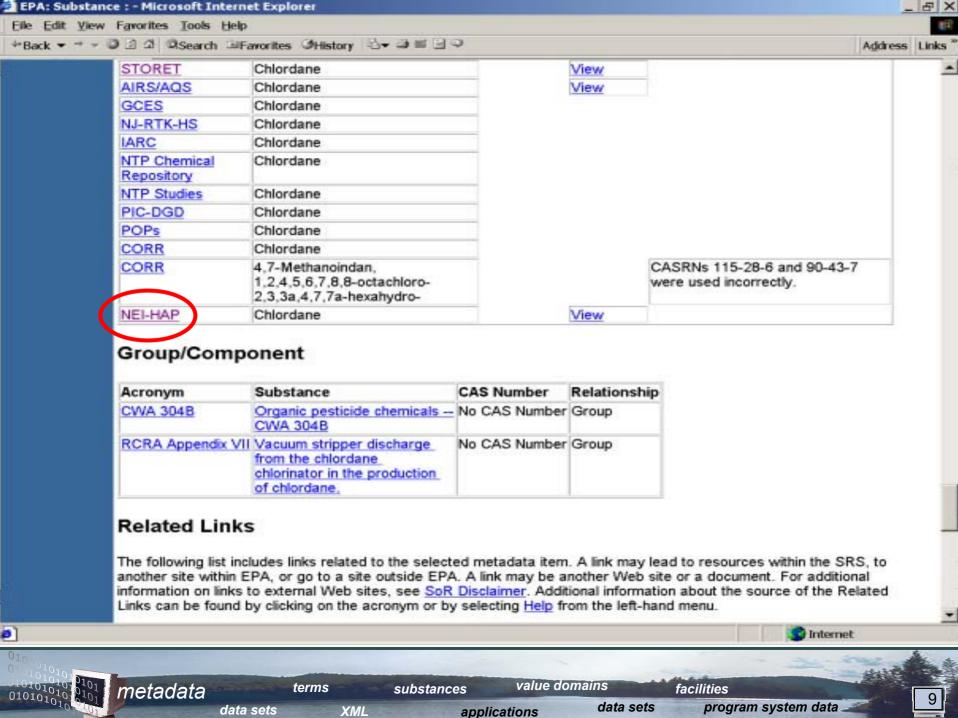
The Substance Registry System (SRS) provides information on substances and how they are represented in the Environmental Protection Agency (EPA) regulations and information systems.

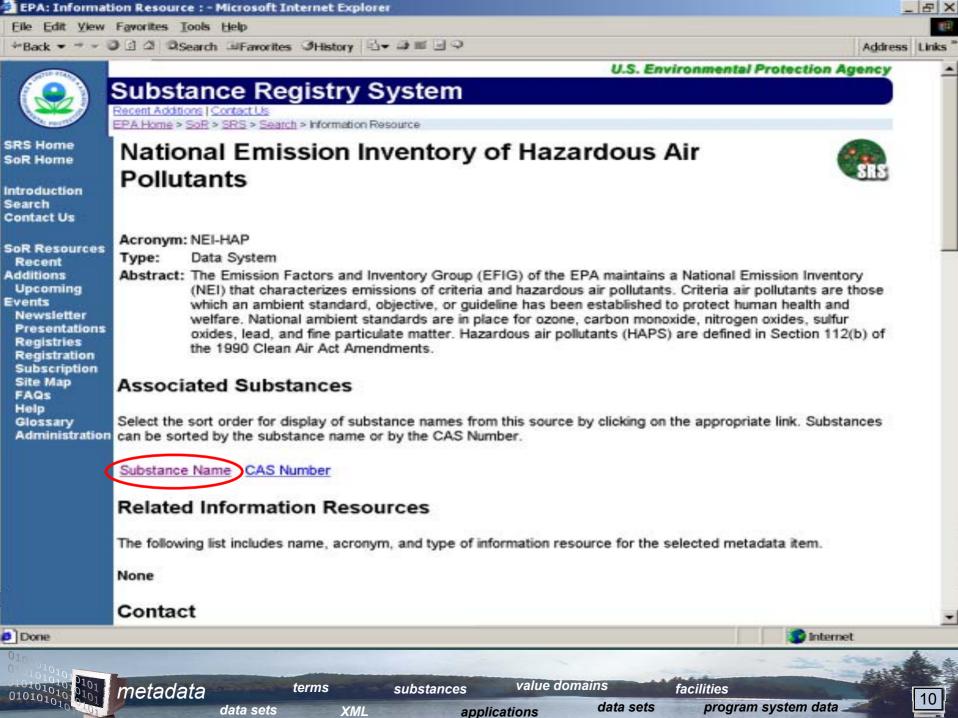
Using the search below, you can query for substances by common identifiers, names, or alternate identifiers. Additional search capabilities are available on the <u>Search</u> page.

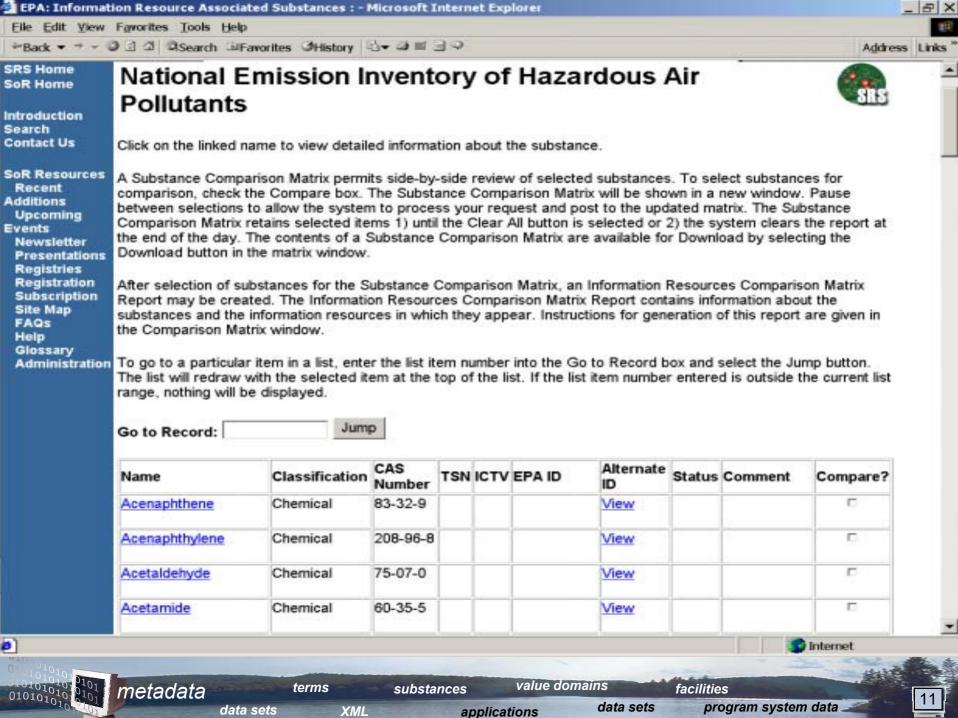












Information Resource Registry System (www.epa.gov/irrs/)



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Related Applications

U.S. Environmental Protection Agency

Information Resource Registry System

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EPA Home > SoR > IRRS



The Information Resource Registry System (IRRS) is an authoritative registry that uniquely identifies the Environmental Protection Agency's (EPA) diverse information resources including computer application systems, Web sites, databases, models, and data sets. As a catalog of available EPA information, the IRRS provides a single point of entry to identify, locate, and access Agency information resources. The IRRS supports EPA's metadata vision to: create and store metadata in as few places as possible; improve the quality and consistency of metadata; and provide a central point of access to the complete collection of all Agency information resources metadata.

The IRRS Search provides the ability to query information by data system, information resources, Agency organizations, and contact persons.

Click on a letter/number below to retrieve a list of data systems beginning with that letter/number.

ABCDEEGHIJKLMNOPQRSTUVWXYZ1234567890

XML

Enter keyword (e.g., air) or text string (e.g., Clean Air Act) in keyword field. The search will guery all text fields (e.g., name, acronym, abstract, etc.) and results will be limited to data systems.

Keyword: [



substances

value domains

facilities

IRRS - Purpose

- IRRS forms the basis for physical or virtual linkages among EPA metadata collections
- Application system records stored in the IRRS can link to:
 - Data elements in the EDR
 - Substances in the SRS
 - Keywords in the TRS
 - Data sets in FIMS
 - Data model for the system in the Enterprise Architecture Repository
- IRRS is integral to EPA's Enterprise Architecture effort

applications



terms

IRRS - Features and Functions

- Uniquely identify the EPA's diverse information resources- computer application systems, Web sites, databases, and data models
- Supports EPA's metadata vision to:
 - Create/store metadata in as few places as possible
 - Improve the quality and consistency of metadata
 - Provide a central point of access to the complete collection of all Agency information resources metadata

applications

Business rules are being developed to further populate the database





terms

Search



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The following searches are available:

- Application Inventory Search queries data systems by beginning letter/number, keyword, application type and status, system characteristics, system platform, or system interface.
- Information Resource Search queries data systems and other information resources by beginning letter/number, keyword, or information resource type.
- Organization Search queries organizations by name or acronym.
- . Contact Search queries information resource contacts by either first or last name.
- Environmental Metadata Gateway enables users to search the metadata registries using a URL with integrated search capabilities.

Fully populated records have been added for demonstration purposes and include Risk Management Plans Information (RMP*Info), Storage and Retrieval for Water Quality Data (STORET), Safe Drinking Water Information System/Federal Version (SDWIS/FED), and the Environmental Data Registry (EDR).

Application Inventory Search

Click on a letter/number below to retrieve a list of data systems beginning with that letter/number.

ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890

Enter keyword (e.g., air) or text string (e.g., Clean Air Act) in keyword field. The search will query all text fields (e.g., name, acronym, abstract, etc.) and results will be limited to data systems.

Keyword:

EPA Organization



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Related Applications

Storage and Retrieval for Water Quality Data

General: Acronym: STORET

Type: Data System

Resource 1.1

Version:

Abstract: STORET is an information management system housing data gathered as a result of ambient monitoring events

performed at over 800,000 sites throughout the United States. The data are used in support of the Resource Conservation and Recovery Act and 305(b) of the Toxic Substances Control Act reporting requirements and for trend analysis. Both ground water and surface water information are contained in the system. The data are supplied by state, tribal, and federal agencies. STORET contains information on the chemical, physical, and

biological quality of the sampled water.

Purpose: STORET was developed to provide managers and analysts a tool with which to evaluate the condition of U.S.

waters and to enable them to perform trend analyses.

Origin: Data are supplied by state, tribal, and federal agencies.

Physical

Research Triangle Park

Location:

Contract: MOSES

Keyword: STORET, ambient monitoring, RCRA, TSCA, water sampling, trend analysis

Application Type and Status:

Resource Level: Major Agency Information System

Resource Type: National
Resource User Type: External
Resource Classification: Database
Resource Status: Operational

System

Data Source: Federal, state and local agencies, tribes, and other interested parties.

System Platform: Type Operating System Development Tool Application Software Computer Type

Personal Computer Windows 2000, Windows COOL:Gen, Oracle C++ Oracle8i Personal Computer

8

Server UNIX JAVASCRIPT, PL/SQL Oracle8i Compact 264

System Interface: Type Data Format Source Frequency

Input Text File Import of text files provided by external users. Weekly, or more frequently if

needed.

download file available.

Output Downloadable File Web site queries only. Print the web page. Preformatted

TOPO: Robert King EPA/OW/Office of Wetlands, Oceans, and Watersheds

Components: Data Elements, Database Tables (EDR)

Biological Organisms, Chemicals, Miscellaneous Objects, Physical Properties (SRS)

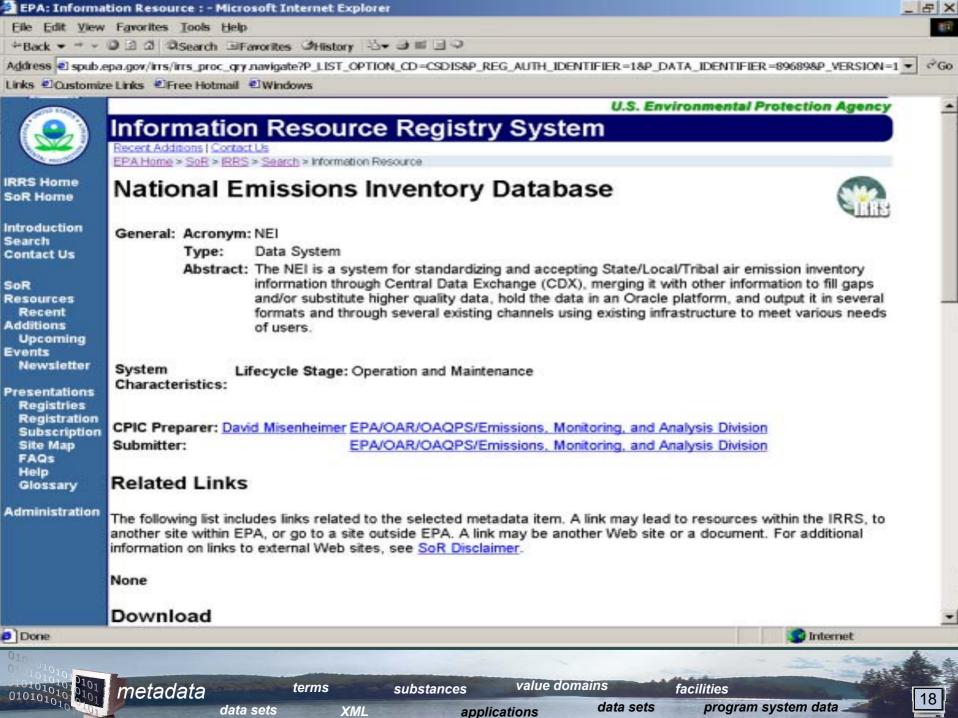
Related Links

The following list includes links related to the selected metadata item. A link may lead to resources within the IRRS, to another site within EPA, or go to a site outside EPA. A link may be another Web site or a document. For additional information on links to external Web sites, see <u>SoR Disclaimer</u>.

Storage and Retrieval for Water Quality Data

Download

This section allows you to dynamically create a download file of the above information.



Environmental Data Registry www.epa.gov/edr/

U.S. Environmental Protection Agency



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Environmental Data Registry

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EPA Home > SoR > EDR







The Environmental Data Registry (EDR) is a comprehensive, authoritative reference for information about the definition, source, and uses of environmental data. The EDR supports the creation and implementation of data standards that are designed to promote the efficient sharing of environmental information among EPA, states, tribes, and other information trading partners. The EDR also catalogs data elements in application systems. The EDR does not contain environmental data - it provides descriptive information to make the data more meaningful.

Updates and Features

- Registry Update, Fall 2002 Highlights the System of Registries.
- XML Tag Search Find XML tags registered in the EDR.
- Code Sets Contains commonly used code sets associated with EPA's Data Standards and other sources.
- Compare Tool Search any data element list to compare data elements from various sources (e.g., data standards, data systems).
- Information Resource Search Use to find application system metadata.
- How To... Use this function to guide your data standard conformance and data harmonization activities.

Scheduled Events

The EDR will be featured at the following events:

- March 20, 2003 SoR Users Conference, Arlington, Virginia.
- April 27 May 1, 2003 DAMA International Symposium and 7th Annual Wilshire Meta-Data Conference, Orlando, Florida.



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EDR - Features and Functions

- Structure follows an international standard
- Records metadata in one place in one way
- Currently contains 9,751 standardized and application data elements from 1,419 different information resources







Environmental Data Registry

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Storage and Retrieval for Water Quality Data

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Implement Standards Harmonize Data

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How To . . .

XML

Type:

1-19910:1 Data System

Acronym:

Identifier:

STORET

Resource

1.1

Version:

Abstract: STORET is an information management system housing data gathered as a result of ambient monitoring events performed

at over 800,000 sites throughout the United States. The data are used in support of the Resource Conservation and Recovery Act and 305(b) of the Toxic Substances Control Act reporting requirements and for trend analysis. Both ground water and surface water information are contained in the system. The data are supplied by state, tribal, and federal agencies. STORET contains information on the chemical, physical, and biological guality of the sampled water.

Purpose:

STORET was developed to provide managers and analysts a tool with which to evaluate the condition of U.S. waters and

to enable them to perform trend analyses.

Source Text: Federal, state and local agencies, tribes, and other interested parties.

Source

Data are supplied by federal, state and local agencies, tribes, and other interested parties.

Explanation:

Origin:

Data are supplied by state, tribal, and federal agencies.

Detailed

View

Facility Information

Report:

TOPO: Robert King EPA/OW/Office of Wetlands, Oceans, and Watersheds

Components: Data Elements

Database Tables

Related Links

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Storage and Retrieval for Water Quality Data: Data Element List

Products & Services Introduction **Data Standards** Newsletter Compare Tool XML **Code Sets** Search

Click on a name to obtain detailed information. The optionality applies to usage in the information source (the optionality given in EPA Data Standards applies only to EPA application systems).

Select/deselect the Compare box to include/remove as many data elements in your Comparison Matrix as desired. Pause between selections to allow the system to process your request and post it to the matrix. Each selection will launch/refresh the Data Element Comparison Matrix window of your browser. The matrix window can be minimized to allow you to return to the Data Element List page and select additional data elements.

If additional searches are conducted that retrieve previously selected data elements, they will display with check marks on the Data Element List page, and will display in the matrix window unless the Clear All button is selected.

The abbreviation or acronym by which this scheme is commonly

How To

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Browse the EDR Implement Standards Harmonize Data **Develop Systems**

To go to a particular item in a list, enter the list item number into the Go to Record box and select the Jump button. The list will redraw with the selected item at the top of the list. If the list item number entered is outside the current list range, nothing will be displayed.

The code that indicates if the person is active in the organization. Alphanumeric

Jump Go to Record:

Definition

known.

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ACITOI4 I M	
1-22727:1	
1-22727.1	

ACTIVE INDICATOR

1-22883:1

CODE

Name

ACDONIVM

ACTIVITY DATE 1-23041:1

The date in which the location submitted this organization for replication to the central database.

Date (8)

Type

(8)

(1)

Alphanumeric

Further Action

Further Action

Element/No

Status

Application Data

Element/No

Further Action

Application Data

Application Data Element/No.

Compare?

П

Code Sets

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Products & Services Introduction

Data Standards Compare Tool

Code Sets contain permissible values, value meaning names, and value meaning definitions that can be used in applications. The Code Sets below have values associated with EPA Data Standards, with national/international standards, or contain lists of values commonly used by EPA programs. When a Code Set is selected, please review the information provided, including the example list of values, to determine if the set will meet your data needs before selecting download and specifying the format of the file to download.

Quick Reference

Code Sets Related to EPA Data Standards	Other Code Sets
Coordinate Data Source Codes	Vertical Collection Method Names
Coordinate Data Source Names	Vertical Reference Datum Codes
Country Names	Vertical Reference Datum Names
County and State FIPS Codes	Counties of the United States
County Names	Countries of the World
Environmental Information System Abbreviated Names	FIPS Codes for Provinces and States of Canada and Mexico
Geometric Type Codes	Postal Codes of the United States and Canada
Geometric Type Names	State FIPS Codes of the United States
Horizontal Collection Method Codes	US Postal Service State Abbreviations
Horizontal Collection Method Names	Hydrologic Unit Codes
Horizontal Reference Datum Codes	Metropolitan Statistical Areas
Horizontal Reference Datum Names	North American Industry Classification System
NAICS Primary Indicators	Standard Industrial Classification Codes
North American U.S. National Industry Classification System (NAICS)	Units of Measure
<u>Codes</u>	
Program System Names	
Reference Point Codes	
Reference Point Names	
SIC Primary Indicators	
Standard Industrial Classification (SIC) Codes	
State Codes	
In the him to the second secon	II .



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Permissible Value and Value Meaning

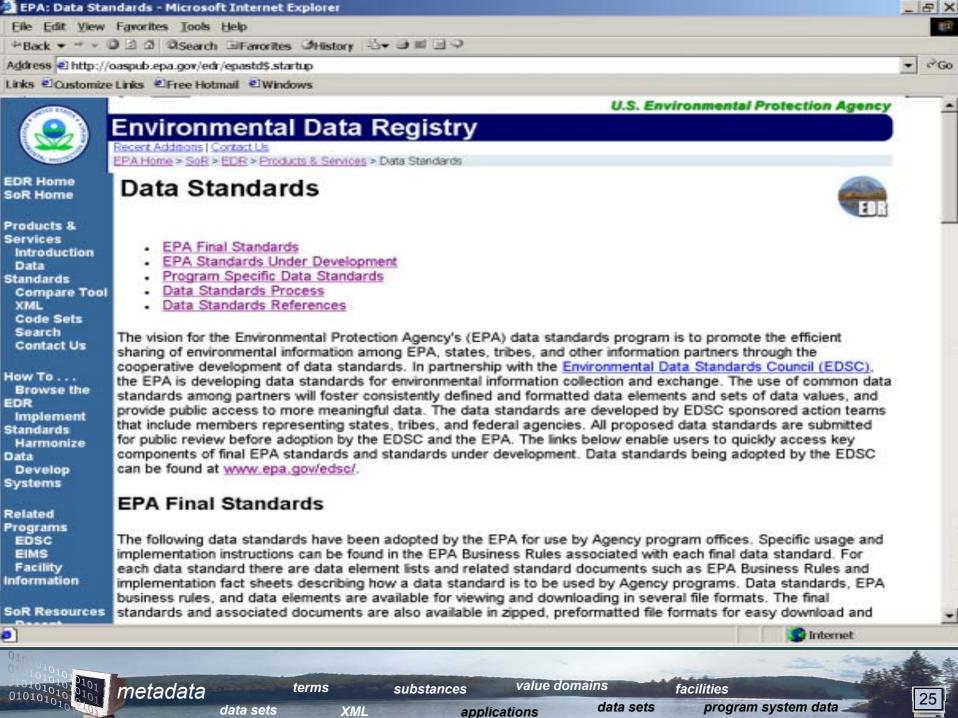
The following section shows a sample list of up to 20 permissible values. To view the entire list (if applicable) select a date range or download the permissible values. To download the permissible value information please go to the Download section.

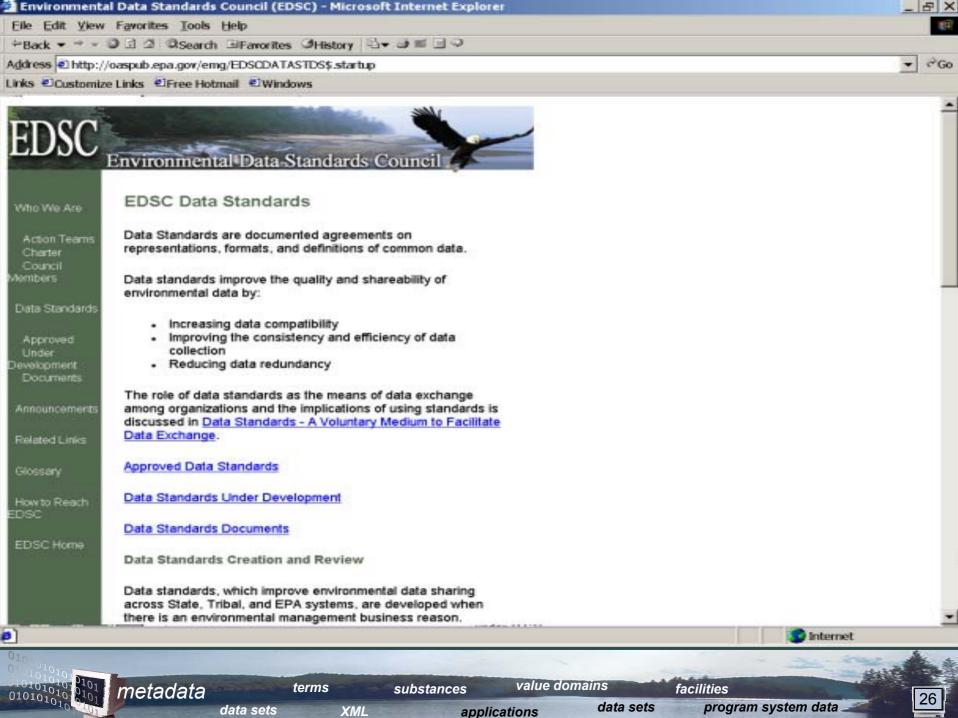


Begin Search	Clear and Start Over

ı	Permissible Value	Value Meaning	Begin Date End Date
ı	AB	The Canadian province of Alberta.	10/01/96
ı		•	
ı	<u>AGS</u>	The Mexican state of Aguascalientes.	10/01/02
ı	<u>AK</u>	The state of Alaska.	10/01/96
ı	<u>AL</u>	The state of Alabama.	10/01/96
ı	<u>AR</u>	The state of Arkansas.	10/01/96
ı	<u>AS</u>	The territory of American Samoa.	10/01/96
ı	<u>AZ</u>	The state of Arizona.	10/01/96
ı	<u>BC</u>	The Mexican state of Baja California.	10/01/02
ı	<u>BC</u>	The Canadian province of British Columbia.	10/01/96
ı	BCS	The Mexican state of Baja California Sur.	10/01/02
ı	<u>CA</u>	The state of California.	10/01/96
ı	<u>CAM</u>	The Mexican state of Campeche.	10/01/02
ı	<u>CHIH</u>	The Mexican state of Chihuahua.	10/01/02
ı	<u>CHIS</u>	The Mexican state of Chiapas.	10/01/02
ı	<u>co</u>	The state of Colorado.	11/05/97
	<u>COAH</u>	The Mexican state of Coahuila de Zaragoza.	10/01/02
	COL	The Mexican state of Colima.	10/01/02
	CT	The state of Connecticut	10/01/96

applications







Exchange Network. Net

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NSB Private

Related Links

XML Registry

Welcome to the interim XML Registry for the Environmental Information Exchange Network. This Registry will provide the capability to share information about XML Data Exchange Template (DETs), XML Schemas, Namespaces, WSDL files, and other supporting files needed to map data flows between partners. The Registry will contain information about schemas approved for use on the Network, as well as information about schemas under development. In time, the XML Registry will provide a clearinghouse for information related to data flows on the Network.

Data Submission

Registration of new schema information in the interim XML Registry can be done using a Microsoft Excel spreadsheet data template. Below is the draft data input template and an example template populated with FRS schema data.

- <u>Draft Data Template</u> (xls)
- Data Template with Example FRS Schema Data (xls)

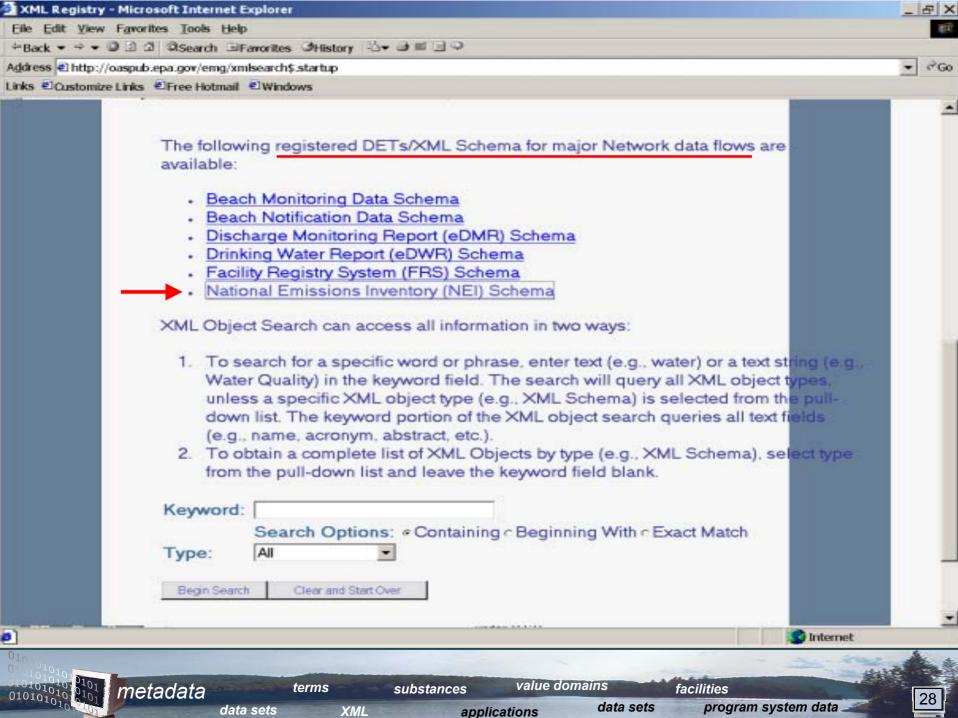
To submit new information please contact: Larry Fitzwater via email at fitzwater.larry@epa.gov or by phone at 202-566-1653.

XML Object Search

A complete list of registered <u>DETs/XML Schema</u> for major Network data flows are available. XML Object Search can access all information in two ways:

- To search for a specific word or phrase, enter text (e.g., water) or a text string (e.g., Water Quality) in the keyword field.
 The search will query all XML object types, unless a specific XML object type (e.g., XML Schema) is selected from the
 pull-down list. The keyword portion of the XML object search queries all text fields (e.g., name, acronym, abstract, etc.)
- To obtain a complete list of XML Objects by type (e.g., XML Schema), select type from the pull-down list and leave the keyword field blank.







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XML and the EDR

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How To ...

XML (Extensible Markup Language) is the technology for facilitating the exchange of data. XML is implemented using tags. XML can be part of a standard for exchanging data between EPA, its state and tribal partners, localities, the regulated community, and other entities through the National Environmental Information Exchange Network, XML tags will be established for all EPA standard data elements.

XML tags for the data elements included in EPA data standards have been registered in the EDR as alternate names for the data elements and can be found on the data element detail page for most of the EPA data standards. An XML tag name can be identified with the Name Context of "XML Tag" or "XML Tag (Draft)".

Approved XML Tags

Draft XML Tags

Browse the EDR Implement Standards

Harmonize Data **Develop Systems** Access http://xml.gov EXIT disclaimer > for more information about XML.

XML Tag Search

Type:

Related Programs **EDSC EIMS Facility Information**

To search for a specific word or phrase, enter text or text string in the XML Tag field to retrieve metadata. The search will only guery the fields in which you have entered text. To obtain a complete list of data elements by source type (e.g., Data Standard), select an information resource type from the pull-down list and leave the other fields blank.

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XML Tag	facility		
	Search Options:	eginning With C	Exact Match
Information	All	-	

Resource



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Data Element List

Products & Services Introduction **Data Standards** Newsletter Compare Tool XMI

Click on a name to obtain detailed information.

Select/deselect the Compare box to include/remove as many data elements in your Comparison Matrix as desired. Pause between selections to allow the system to process your request and post it to the matrix. Each selection will launch/refresh the Data Element Comparison Matrix window of your browser. The matrix window can be minimized to allow you to return to the Data Element List page and select additional data elements.

Registration **Subscription**

Code Sets Search

If additional searches are conducted that retrieve previously selected data elements, they will display with check marks on the Data Element List page, and will display in the matrix window unless the Clear All button is selected.

How To Browse the EDR

To go to a particular item in a list, enter the list item number into the Go to Record box and select the Jump button. The list will redraw with the selected item at the top of the list. If the list item number entered is outside the current list range, nothing will be displayed.

Implement Standards Harmonize Data **Develop Systems**

Go to Record:		Jump
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XML Tags

Related Programs **EDSC**

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Name Facility Registry Identifier

1-32387:1

XML Tag: FacilityRegistryIdentifier

Facility Site Name

1-5720:1

XML Tag: FacilitySiteName

XML Tag: StateFacilityIdentifier

1-6123:1

State Facility Identifier

Definition

The identification number assigned by the EPA Facility Registry System to uniquely identify a facility site.

Alphanumeric Standard/Final (12)

Type

(80)

Compare? П

Status

Alphanumeric Standard/Final

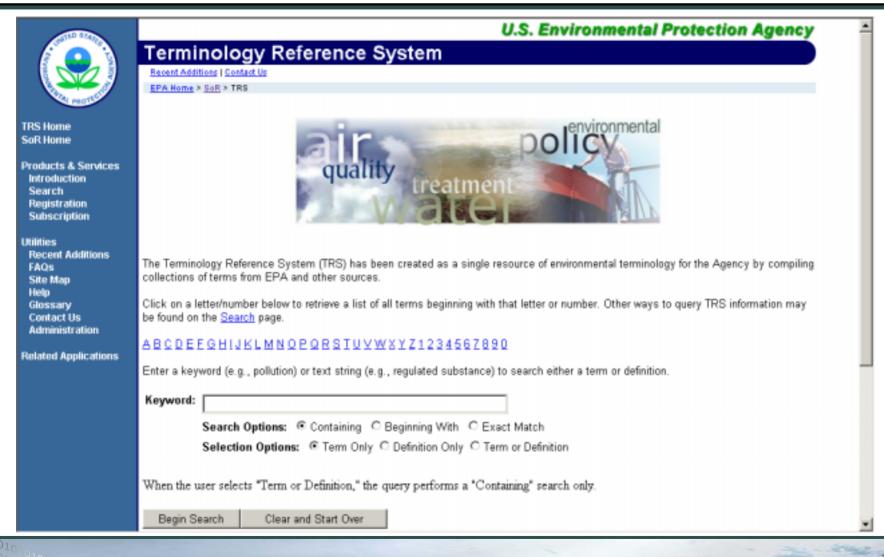
The public or commercial name of a facility site (i.e., the full name that commonly appears on invoices, signs, or other

business documents, or as assigned by the state when the name is ambiguous).

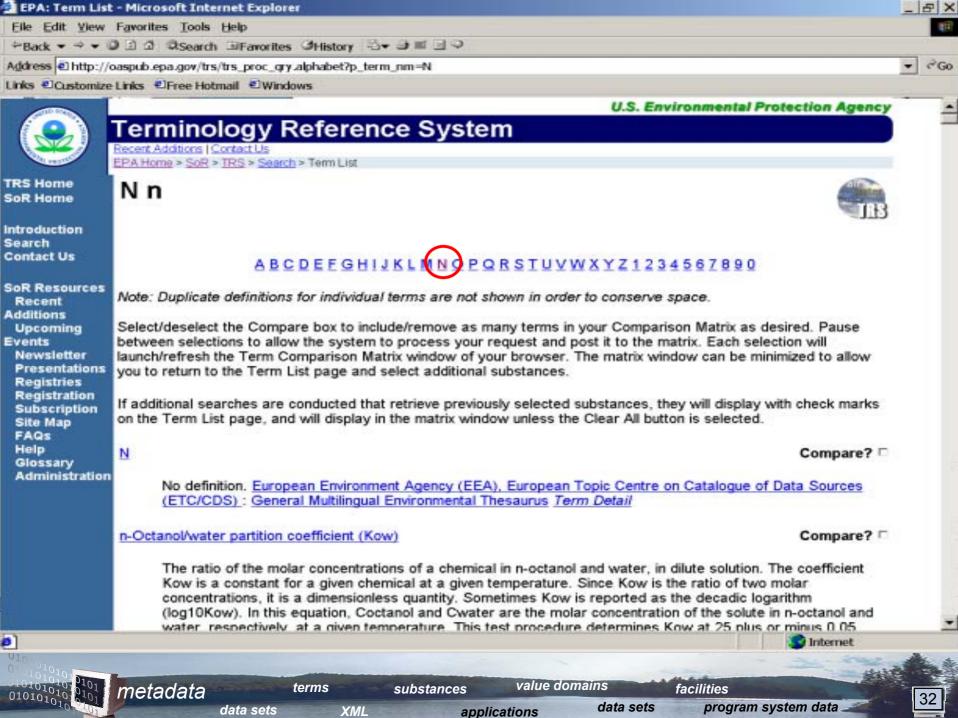
The unique identification number used by a Alphanumeric Standard/Final state to identify a facility site.

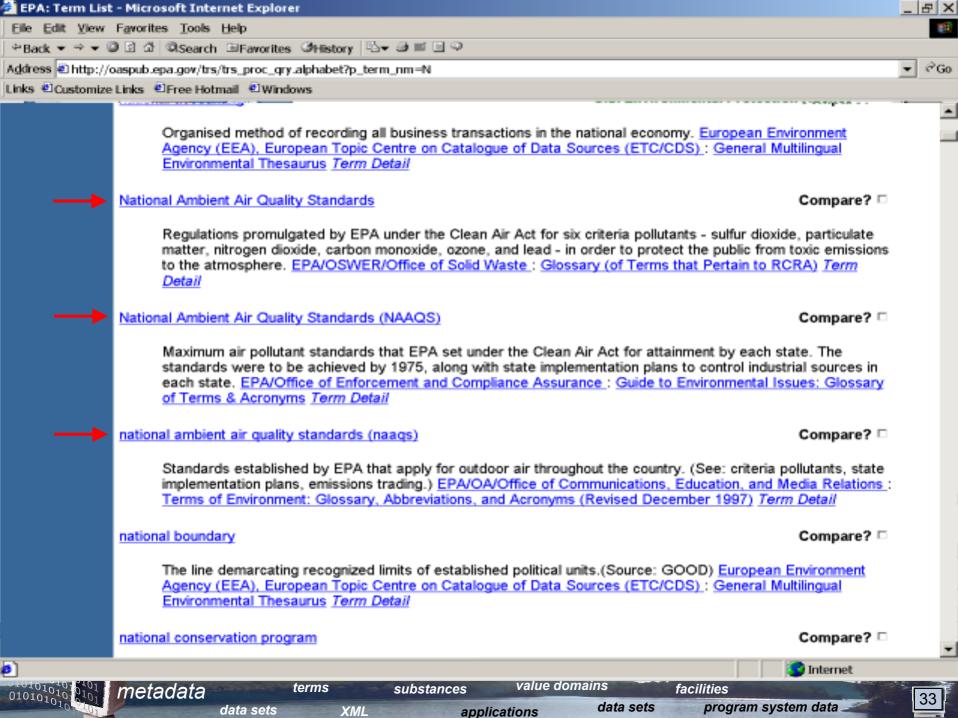
(12)

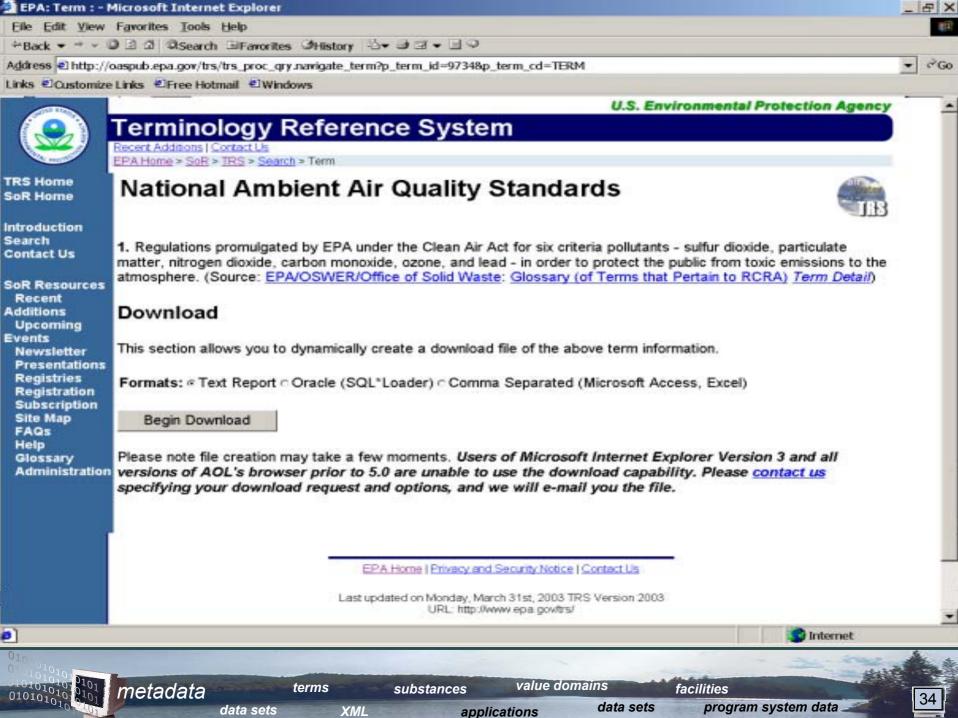
Terminology Reference System (www.epa.gov/trs/)











Environmental Information Management System (EIMS)





Environmental Information Management System

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Welcome

EPA's Office of Research and Development (ORD) has developed a scientific environmental information management system (EIMS) that stores, manages, and delivers descriptive information (metadata) for data sets, databases, documents, models, multimedia, projects, and spatial information. The EIMS design also provides a repository for scientific documentation that can be easily accessed with standard Web browsers to place a virtual library on the desktop of EPA staff and others with Internet access. EIMS is one of the integrating activities for information management within the USEPA's Office of Research and Development.

Announcements

The latest version of the EIMS User Guide and Data Administration Guidelines are now available for download.

Please see our User Guide section and refer to the Policies and Procedures area for the Administration Guidelines.

to manage data, see Partner Portals

ORD Organizations:

National Center for Environmental Assessment National Center for Environmental Research

National Exposure Research Laboratory

National Health and Environmental Effects Research Laboratory National Risk Management

Research Laboratory Office of Resources Management and Administration

ORD Project Partners:

Environmental Monitoring and Assessment Program Human Exposure Database System

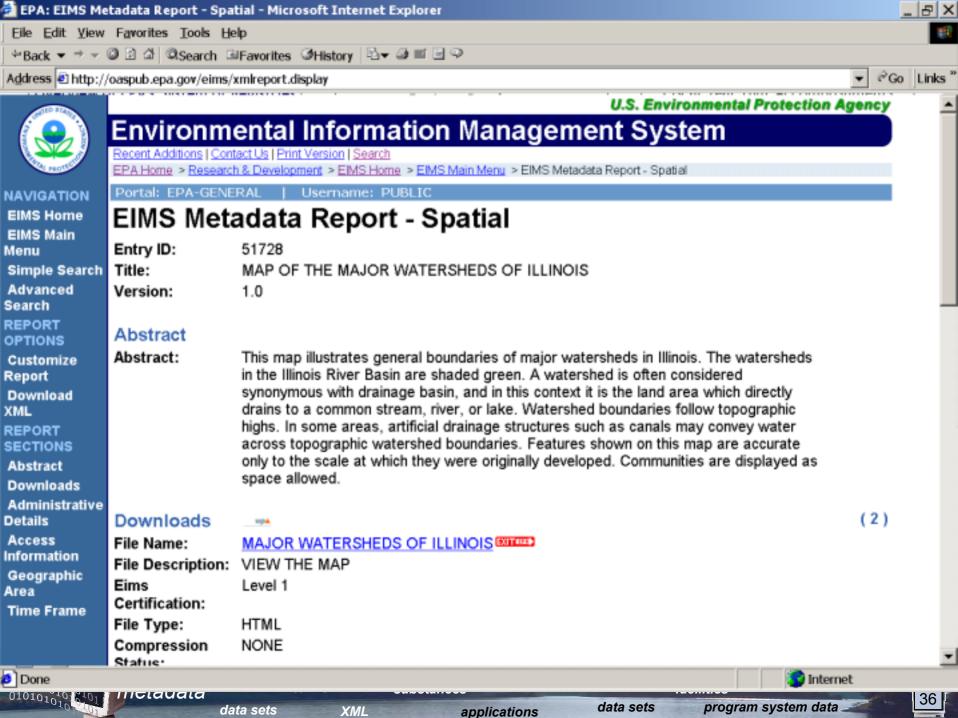


terms

substances

value domains

facilities



Discussion





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